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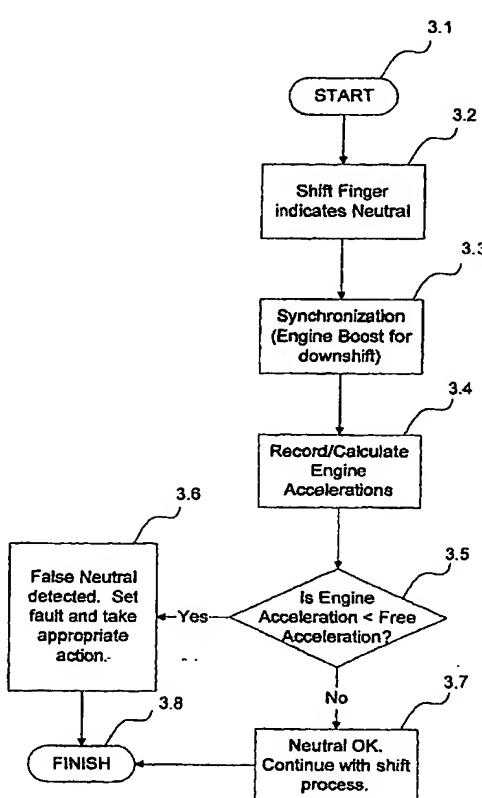
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[Continued on next page]

(54) Title: METHOD OF DETECTING FALSE NEUTRAL IN AN AUTOMATED TRANSMISSION SYSTEM



(57) Abstract: A method and system for controlling downshifting in an automated mechanical transmission system utilized on a vehicle. When an automatic power downshift from a currently engaged ratio is required, the engine acceleration is monitored and compared with an engine free acceleration to detect a false Neutral condition and to take appropriate action accordingly. Alternatively, a false Neutral condition is detected when the Absolute Value of the rotational speed of the output shaft times the currently engaged gear ratio minus the rotational speed of the input shaft is less than a predetermined value (ABS((OS*GR)-IS)).



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16H61/12 F16H59/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	EP 0 242 086 A (EATON CORP) 21 October 1987 (1987-10-21) column 3, line 31 - line 36 column 7, line 49 -column 8, line 27 column 9 -column 11 figures 3A,3B	9-11
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X	EP 0 857 897 A (EATON CORP) 12 August 1998 (1998-08-12) abstract figure 7 column 2, line 34 - line 40 column 9, line 49 -column 11, line 15	9-11
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	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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